

CLAIMS

1. A receiver comprising:
 - an amplification means for amplifying a receiver signal based on an
 - 5 AGC signal;
 - a CORDIC means for calculating a receiving amplitude of a known symbol which is a constant amplitude; and
 - a control means for generating the AGC signal based on the receiving amplitude calculated by the CORDIC means and applying the
 - 10 AGC signal to the amplification means.
2. The receiver according to claim 1, further comprising a carrier frequency correction means for negating carrier frequency offset, wherein the CORDIC means detects the carrier frequency offset from a delay detection output of a receiving known symbol and a correlation output with the known symbol.
3. A receiver comprising:
 - a means for detecting carrier frequency offset; and
 - 20 a CORDIC means for generating a sine wave and a cosine wave corresponding to the detected carrier frequency offset, and conducting frequency offset correction process.
4. A receiver comprising:
 - 25 a CORDIC means for multiple-dividing a receiving known symbol

by a known symbol, and detecting a channel skewness; and

a CORDIC means for compensating the detected channel skewness.

5. A receiver comprising a means for conducting maximum ratio synthesis diversity process while normalizing an output amplitude of a receiver signal of each branch by a systolic array architecture wherein a CORDIC is a basic cell.